## <u>Project Manager & Key Staff Standards</u> for Technical Proposals Projects using <u>Level A and/or Level B</u> prequalification disciplines

| Project Manager    | Project Specific Education, License<br>and Other Requirements<br>(TP Section 5) | Experience On<br>Similar Projects<br>(TP Section 6) | Similar Project Experience<br>(TP Sections 6 & 7)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| PROJECT<br>MANAGER | BACHELORS DEGREE     NJPE                                                       | UP TO 6<br>PROJECTS                                 | EXPERIENCE IN NJDOT PROJECT DELIVERY PROCESS WITH THE MANAGEMENT OF AT LEAST ONE TRANSPORTATION PROJECT WITH SIMILAR SIZE AND COMPLEXITY FROM PRELIMINARY DESIGN/ENGINEERING PHASE THROUGH THE COMPLETION OF CONSTRUCTION WITHIN LAST 15 YEARS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                    |                                                                                 | 4 TO 8 YEARS                                        | DEPUTY PROJECT MANAGEMENT EXPERIENCE CAN (CANNOT) BE APPLIED FOR 1-3 PROJECTS.  EXPERIENCE WITH FHWA'S NEPA PROCESS.  EXPERIENCE IN MAINTAINING PROJECT'S BUDGET, SCHEDULE, SCOPE AND QUALITY MANAGEMENT AND SHOULD HAVE BEEN DIRECTLY RESPONSIBLE FOR BUDGET, SCHEDULE AND DELIVERY OF DESIGN DOCUMENTS/ STUDY REPORTS.  EXPERIENCE IN PROJECT'S PUBLIC OUTREACH.  EXPERIENCE IN PROJECT(S) OF SIMILAR SIZE AND COMPLEXITY SHOULD HAVE INCLUDED THE FOLLOWING (NJDOT CONTRACT MANAGER TO SELECT/ADD/DELETE APPROPRIATE PROJECT SPECIFIC CATEGORIES MARKED IN RED BELOW): -HIGHWAY DESIGN INCLUDING GEOMETRIC DESIGN AND/OR DRAINAGE DESIGN AND/OR TRAFFIC SIGNAL/SAFETY ENGINEERING AND/OR MPT AND/OR ROW ENGINEERING AND/OR ACCESS DESIGN AND/OR UTILITY RELOCATIONSTRUCTURAL DESIGN INCLUDING BRIDGE REPLACEMENT AND/OR SUPERSTRUCTURE REPLACEMENT AND/OR DECK REPLACEMENT AND/OR BRIDGE REHABILITATION AND/OR GEOTECHNICAL AND FOUNDATION DESIGN AND/OR SUBSTRUCTURE DESIGN AND/OR RETAINING WALL DESIGN AND OR CULVERT DESIGN.  EXPERIENCE IN CONSTRUCTION |
| Key Staff/         | Project Specific Education, License and Other Requirements                      | Experience On                                       | ENGINEERING INCLUDING SHOP DRAWING REVIEWS, CONSTRUCTION SCHEDULE REVIEWS, AND PREPARATION OF CHANGE OF PLANS.  Similar Project Experience                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Team Leaders       | (TP Section 9)                                                                  | Similar Projects<br>(TP Section 10)                 | (TP Section 10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| ROADWAY DESIGN     | • BSCE • NJPE                                                                   | UP TO 6<br>PROJECTS  4 TO 6 YEARS                   | <ul> <li>PERFORMED GEOMETRIC DESIGN OF HIGHWAYS AND STREETS</li> <li>PREPARED DESIGN EXCEPTION REPORT</li> <li>RESPONSIBLE FOR THE DEVELOPMENT OF CONSTRUCTION PLANS, ENGINEERING ESTIMATES, AND SPECIFICATIONS USING TRANS-PORT AND PRIMAVERA SCHEDULE</li> <li>PREPARED TRAFFIC CONTROL AND STAGING PLANS (MPT)</li> <li>PREPARED TRAFFIC SIGNAGE AND STRIPING PLAN</li> <li>EXPERIENCE IN NJDOT CAPITAL PROJECT DELIVERY PROCESS</li> <li>EXPERIENCE IN NJDOT/ AASHTO ROADWAY DESIGN MANUAL</li> <li>EXPERIENCE IN NJDOT STANDARDS SPECIFICATIONS FOR ROAD &amp; BRIDGE CONSTRUCTION</li> <li>EXPERIENCE IN NJ STATE HIGHWAY ACCESS MANAGEMENT CODE</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                               |

## <u>Project Manager & Key Staff Standards</u> for Technical Proposals Projects using <u>Level A and/or Level B</u> prequalification disciplines

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| BRIDGE DESIGN               | BSCE     NJPE                                  | UP TO 6<br>PROJECTS | PREPARED BRIDGE DESIGN PLANS AND<br>SPECIFICATIONS USING AASHTO/NJDOT<br>DESIGN MANUALS                |
|                             |                                                | 4 TO 6 YEARS        | PERFORMED LOAD RESISTANCE FACTOR     DESIGN (LRFD) METHODOLOGY FOR BRIDGE     DESIGN.                  |
|                             |                                                |                     | PERFORMED SEISMIC ANALYSIS AND DESIGN     EXPERIENCE IN NJDOT CAPITAL PROJECT     DELIVERY PROCESS     |
|                             |                                                |                     | EXPERIENCE WITH NJDOT/AASHTO BRIDGE<br>AND STRUCTURE DESIGN MANUALS                                    |
| GEOTECHNICAL<br>ENGINEERING | BSCE     NJPE                                  | UP TO 6<br>PROJECTS | PERFORMED FOUNDATION, RETAINING WALL,<br>SHEET PILE, NOISE WALL, SIGN STRUCTURE<br>DESIGN              |
|                             |                                                | 3 TO 5 YEARS        | PERFORMED SETTLEMENT, STABILITY     ANALYSIS                                                           |
|                             |                                                |                     | PERFORMED WAVE EQUATION, DRIVABILITY, PILE DYNAMIC ANALYSIS                                            |
|                             |                                                |                     | PERFORMED PAVEMENT DESIGN AND     PREPARED FOUNDATION REPORTS     EXPERIENCE WITH NJDOT /AASHTO BRIDGE |
| PAVEMENT DESIGN             | BSCE                                           | UP TO 6             | AND STRUCTURE DESIGN MANUAL  • CONCRETE PAVEMENT REHAB TECHNIQUES                                      |
| TAVEINENT DESIGN            | NJPE                                           | PROJECTS            | SOIL MECHANICS – RESILIENT MODULUS AND SUBSURFACE DRAINAGE                                             |
|                             |                                                | 2 TO 4 YEARS        | SUPERPAVE LEVEL I                                                                                      |
|                             |                                                |                     | LIFE CYCLE COST ANALYSIS     BACK CALCULATION OF FWD DEFLECTION DATA.                                  |
|                             |                                                |                     | EXPERIENCE WITH SHRP LTTP DISTRESS     IDENTIFICATION MANUAL                                           |
|                             |                                                |                     | EXPERIENCE WITH AASHTO GUIDE FOR<br>DESIGN OF PAVEMENT STRUCTURES, 1993 OR<br>LATER                    |
| HYDRAULICS AND<br>HYDROLOGY | BSCE     Training in Drainage Design           | UP TO 6<br>PROJECTS | DESIGN OF RETENTION AND DETENTION     BASIN FOR WATER QUALITY                                          |
|                             | Software (i.e. HEC-1, TR55&<br>HEC-RAS)        | 4 TO 6 YEARS        | PERFORMED HIGHWAY STORM WATER     DRAINAGE SPREAD CALCULATIONS AND                                     |
|                             | <ul> <li>Training in Scour Analysis</li> </ul> | 4 10 6 YEARS        | DEVELOPED STORM WATER MANAGEMENT PLAN.                                                                 |
|                             |                                                |                     | PERFORMED SCOUR ANALYSIS AND FLOOD     ROUTING CALCULATIONS     PERFORMED HIGHWAY DRAINAGE DESIGN      |
|                             |                                                |                     | USING HEC-1, HEC-2, TR55, HEC-20 & HEC-RAS  • EXPERIENCE IN NJDEP FLOOD HAZARD                         |
|                             |                                                |                     | CONTROL ACT AND STORM WATER MANAGEMENT REGULATIONS.                                                    |
| UTILITY<br>ENGINEERING      | BS IN ENGINEERING                              | UP TO 6<br>PROJECTS | PREPARATION OF UTILITY     RELOCATION SCHEMES AND DESIGN-     CONSTRUCTION PLANS                       |
|                             |                                                | 3 TO 5 YEARS        | PREPARATION OF UTILITY AGREEMENT PLANS     PREPARATION OF SPECIFICATIONS (SPECIAL                      |
|                             |                                                |                     | PROVISIONS)  • EXPERIENCE WITH NJDOT CAPITAL PROJECT                                                   |
|                             |                                                |                     | DELIVERY PROCESS.  • EXPERIENCE WITH STATE UTILITY & RAILROAD                                          |
|                             |                                                |                     | ACCOMMODATION POLICY     EXPERIENCE WITH TITLE 16 NJDOT CHAPTER                                        |
|                             |                                                |                     | 25 UTILITY ACCOMMODATION POLICY     ACCOMMODATION POLICY DESIGN                                        |
|                             |                                                |                     | EXPERIENCE     EXPERIENCE WITH CFR TITLE 23 PART 645                                                   |
|                             |                                                |                     | EXPERIENCE WITH CFR TITLE 23 PART 646     EXPERIENCE WITH NJDOT ROADWAY DESIGN                         |
|                             |                                                |                     | MANUAL • EXPERIENCE WITH NJDOT BRIDGE AND                                                              |
|                             |                                                |                     | STRUCTURAL DESIGN MANUAL     EXPERIENCE WITH UTILITY DESIGN OF WATER AND MUNICIPAL SEWER               |
|                             |                                                |                     | AND MONION AL DEVELO                                                                                   |
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## <u>Project Manager & Key Staff Standards</u> for Technical Proposals Projects using <u>Level A and/or Level B</u> prequalification disciplines

| Key Staff/                               | Project Specific Education, License                                                                                                                            | Experience On                       | Similar Project Experience                                                                                                                                                                                                                                                                                                      |
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| Team Leaders                             | and Other Requirements (TP Section 9)                                                                                                                          | Similar Projects<br>(TP Section 10) | (TP Section 10)                                                                                                                                                                                                                                                                                                                 |
| SURVEYING AND<br>ROW ENGINEERING         | NJ PLS                                                                                                                                                         | UP TO 6 PROJECTS 5 TO 7 YEARS       | TOPOGRAPHIC SURVEY, BASE LINE SURVEY, PROFILE AND CROSS SECTIONS FOR HIGHWAYS PREPARED ROW MAPS(ETM, GPPM,IPM) WITH PARCEL DESCRIPTIONS.  EXPERIENCE WITH NJ MAP FILING LAW FOR ROW MAPPING  EXPERIENCE WITH NJDOT SURVEYING MANUAL & STANDARD ARTICLE 44  EXPERIENCE WITH NJDOT SURVEYING MANUAL AND STANDARD ARTICLE 51       |
| TRAFFIC<br>ENGINEERING                   | BSCE or BSEE     TRAINING IN TRAFFIC SAFETY IN CONSTRUCTION ZONE, HIGHWAY CAPACITY MANUAL     TRAINING IN HIGHWAY CAPAPCITY ANALYSIS SOFTWARE HCM, TRANSIT 7F, | UP TO 6<br>PROJECTS                 | PERFORMED HIGHWAY CAPACITY /LOS ANALYSIS, USING HIGHWAY CAPACITY SOFTWARE, HCS PERFORMED SPEED/DELAY STUDIES AND QUEUING ANALYSIS PREPARED TRAFFIC SIGNAL DESIGN PLANS PREPARED DESIGN TEMPORARY TRAFFIC SIGNAL EXPERIENCE IN MUTCD, STANDARD ROADWAY                                                                           |
| ENVIRONMENTAL                            | PARS2 SYNCHRO.      BACHELORS OR MASTERS                                                                                                                       | 3 TO 3 TEATIO                       | CONSTRUCTION AND TRAFFIC CONTROL DETAILS.      MANAGED ENVIRONMENTAL TECHNICAL                                                                                                                                                                                                                                                  |
| SCIENCE                                  | DEGREE IN ENVIRONMENTAL SCIENCE, ECOLOGY, GEOLOGY, ENGINEERING, BIOLOGY, CHEMICAL OR NATURAL RESOURCES                                                         | UP TO 6<br>PROJECTS                 | STUDIES FOR AIR, NOISE, ECOLOGY, HAZARDOUS WASTE, SOCIOECONOMIC, EJ, HISTORIC ARCHITECTURAL, AND ARCHEOLOGY.  • MANAGED PREPARATION OF NEPA DOCUMENTS AND ENVIRONMENTAL PERMITS                                                                                                                                                 |
|                                          | TIEGGONGEG                                                                                                                                                     | 5 TO 7 YEARS                        | MANAGED PREPARATION OF SECTION 4(F)     DOCUMENTS     EXPERIENCE WITH STATE & FEDERAL     ENVIRONMENTAL REGULATIONS     EXPERIENCE WITH NJDOT CAPITAL PROJECT     DELIVERY PROCESS     EXPERIENCE WITH PROCEDURES INVOLVING     SHPO AND DEP PERMITS     EXPERIENCE WITH SECRETARY OF INTERIOR     STANDARDS FOR REHABILITATION |
| ENVIRONMENTAL -<br>CULTURAL<br>RESOURCES | QUALIFIED IN 36 CFRPART 61 (WHICH NOTES BACHELORS OR MASTERS DEGREE IN ARCHEOLOGY, ANTHROPOLOGY, ARCHITECTURAL)                                                | UP TO 6<br>PROJECTS                 | CULTURAL RESOURCES (INCLUDING<br>ARCHEOLOGY AND HISTORIC ARCHITECTURAL<br>SURVEYS AND MITIGATION EFFORTS)                                                                                                                                                                                                                       |
|                                          | HISTORY, ART HISTORY, HISTORIC<br>PRESERVATION OR CLOSELY<br>RELATED FIELD)                                                                                    | 5 TO 7 YEARS                        |                                                                                                                                                                                                                                                                                                                                 |
| ELECTRICAL<br>ENGINEERING                | BSEE                                                                                                                                                           | UP TO 6<br>PROJECTS                 | <ul> <li>TRAFFIC SIGNAL DESIGN</li> <li>HIGHWAY LIGHTING DESIGN</li> <li>EXPERIENCE IN CADD - "DGN" FORMAT</li> </ul>                                                                                                                                                                                                           |
|                                          |                                                                                                                                                                | 2 TO 4 YEARS                        | EXPERIENCE WITH LIGHTING DESIGN SOFTWARE     CALA                                                                                                                                                                                                                                                                               |
| ITS                                      | BSCE or BSEE (ELECTRICAL OR<br>ELECTRONICS                                                                                                                     | UP TO 6<br>PROJECTS                 | DESIGN AND TESTING OF A COMPLETED AND<br>OPERATIONAL ITS SYSTEM, INCLUDING DMS,<br>CCTV, CTSS, AND TRAFFIC DETECTORS                                                                                                                                                                                                            |
|                                          |                                                                                                                                                                | 2 TO 5 YEARS                        | DATA AND VIDEO COMMUNICATIONS NETWORKS AND SYSTEMS INTEGRATION, INCLUDING FIBER AND WIRELESS SYSTEMS     DESIGN OF TRAFFIC MANAGEMENT CENTER     EXPERIENCE WITH DESIGN, DEPLOYMENT & OPERATION OF ITS TECHNOLOGIES     EXPERIENCE WITH NTCIP STANDARDS     EXPERIENCE WITH ITS ARCHITECTURES & SYSTEMS ENGINEERING PROCESS     |
| COMMUNITY<br>INVOLVEMENT                 | ORGANIZED COMMUNITY<br>OUTREACH EVENTS                                                                                                                         | 2 TO 4 YEARS<br>3 TO 5 YEARS        | RESPONSIBLE FOR PUBLIC INFORMATION CENTERS     COMMUNITY OUTREACH     MAINTAINING MAILING LISTS AND RECORDS OF COMMUNITY OUTREACH PROGRAM     CONTEXT SENSITIVE DESIGN (CSD)                                                                                                                                                    |

## <u>Project Manager & Key Staff Standards</u> for Technical Proposals Projects using <u>Level B and/or Level C</u> prequalification disciplines

| Project Manager                        | Project Specific Education, License and Other Requirements                           | Experience On Similar Projects                                                 | Similar Project Experience<br>(TP Sections 6 & 7)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| PROJECT<br>MANAGER                     | (TP Section 5)  BACHELORS DEGREE  NJPE                                               | UP TO 6 PROJECTS  6 TO 10 YEARS                                                | EXPERIENCE IN NJDOT PROJECT DELIVERY PROCESS WITH THE MANAGEMENT OF AT LEAST ONE TRANSPORTATION PROJECT WITH SIMILAR SIZE AND COMPLEXITY FROM PRELIMINARY DESIGN/ENGINEERING PHASE THROUGH THE COMPLETION OF CONSTRUCTION WITHIN LAST 15 YEARS. DEPUTY PROJECT MANAGEMENT EXPERIENCE CAN (CANNOT) BE APPLIED FOR 1-3 PROJECTS.  EXPERIENCE WITH FHWA'S NEPA PROCESS.  EXPERIENCE IN MAINTAINING PROJECT'S BUDGET, SCHEDULE, SCOPE AND QUALITY MANAGEMENT AND SHOULD HAVE BEEN DIRECTLY RESPONSIBLE FOR BUDGET, SCHEDULE AND DELIVERY OF DESIGN DOCUMENTS/ STUDY REPORTS.  EXPERIENCE IN PROJECT'S PUBLIC OUTREACH.  EXPERIENCE IN PROJECT(S) OF SIMILAR SIZE AND COMPLEXITY SHOULD HAVE INCLUDED THE FOLLOWING (NJDOT CONTRACT MANAGER TO SELECT/ADD/DELETE APPROPRIATE PROJECT SPECIFIC CATEGORIES MARKED IN RED BELOW):  -HIGHWAY DESIGN INCLUDING GEOMETRIC DESIGN AND/OR DRAINAGE DESIGN AND/OR TRAFFIC SIGNAL/SAFETY ENGINEERING AND/OR MYT AND/OR ROW ENGINEERING AND/OR MYT AND/OR ROW ENGINEERING AND/OR ACCESS DESIGN AND/OR UTILITY RELOCATION.  -STRUCTURAL DESIGN INCLUDING BRIDGE REPLACEMENT AND/OR BRIDGE REPLACEMENT AND/OR DECK REPLACEMENT AND/OR GEOTECHNICAL AND FOUNDATION DESIGN AND/OR SUBSTRUCTURE REPLACEMENT AND/OR BRIDGE REHABILITATION AND/OR GEOTECHNICAL AND FOUNDATION DESIGN AND/OR SUBSTRUCTURE DESIGN AND/OR RETAINING WALL DESIGN AND OR CULVERT DESIGN.  EXPERIENCE IN CONSTRUCTION SCHEDULE REVIEWS, AND PREPARATION OF CHANGE OF |
| Key Staff Team Leaders  ROADWAY DESIGN | Project Specific Education, License and Other Requirements (TP Section 9)  BSCE NJPE | Experience On Similar Projects (TP Section 10)  UP TO 6 PROJECTS  6 TO 8 YEARS | PLANS.  SIMILAR PROJECT EXPERIENCE (TP SECTION 10)  PERFORMED GEOMETRIC DESIGN OF HIGHWAYS AND STREETS PREPARED DESIGN EXCEPTION REPORT RESPONSIBLE FOR THE DEVELOPMENT OF CONSTRUCTION PLANS, ENGINEERING ESTIMATES, AND SPECIFICATIONS USING TRANS-PORT AND PRIMAVERA SCHEDULE PREPARED TRAFFIC CONTROL AND STAGING PLANS (MPT) PREPARED TRAFFIC SIGNAGE AND STRIPING PLAN EXPERIENCE IN NJDOT CAPITAL PROJECT DELIVERY PROCESS EXPERIENCE IN NJDOT/ AASHTO ROADWAY DESIGN MANUAL EXPERIENCE IN NJDOT STANDARDS SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION EXPERIENCE IN NJ STATE HIGHWAY ACCESS MANAGEMENT CODE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

#### <u>Project Manager & Key Staff Standards</u> for Technical Proposals Projects using <u>Level B and/or Level C</u> prequalification disciplines

| BRIDGE DESIGN                                                                               | BSCE     NJPE     | UP TO 6<br>PROJECTS<br>6 TO 8 YEARS | <ul> <li>PREPARED BRIDGE DESIGN PLANS AND SPECIFICATIONS USING AASHTO/NJDOT DESIGN MANUALS</li> <li>PERFORMED LOAD RESISTANCE FACTOR DESIGN (LRFD) METHODOLOGY FOR BRIDGE DESIGN.</li> <li>PERFORMED SEISMIC ANALYSIS AND DESIGN</li> <li>EXPERIENCE IN NJDOT CAPITAL PROJECT DELIVERY PROCESS</li> <li>EXPERIENCE WITH NJDOT/AASHTO BRIDGE AND STRUCTURE DESIGN MANUALS</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                          |
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| GEOTECHNICAL<br>ENGINEERING                                                                 | BSCE     NJPE     | UP TO 6<br>PROJECTS<br>3 TO 5 YEARS | PERFORMED FOUNDATION, RETAINING WALL, SHEET PILE, NOISE WALL, SIGN STRUCTURE DESIGN PERFORMED SETTLEMENT, STABILITY ANALYSIS PERFORMED WAVE EQUATION, DRIVABILITY, PILE DYNAMIC ANALYSIS PERFORMED PAVEMENT DESIGN AND PREPARED FOUNDATION REPORTS EXPERIENCE WITH NJDOT /AASHTO BRIDGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| PAVEMENT DESIGN<br>(level A<br>prequalification only,<br>additional years of<br>experience) | BSCE     NJPE     | UP TO 6<br>PROJECTS<br>6 TO 8 YEARS | AND STRUCTURE DESIGN MANUAL  CONCRETE PAVEMENT REHAB TECHNIQUES  SOIL MECHANICS – RESILIENT MODULUS AND SUBSURFACE DRAINAGE  SUPERPAVE LEVEL I  LIFE CYCLE COST ANALYSIS  BACK CALCULATION OF FWD DEFLECTION DATA IS THIS STILL RELEVANT  EXPERIENCE WITH SHRP LTTP DISTRESS IDENTIFICATION MANUAL  EXPERIENCE WITH AASHTO GUIDE FOR DESIGN OF PAVEMENT STRUCTURES, 1993 OR LATER                                                                                                                                                                                                                                                                                                                                                                                            |
| HYDRAULICS AND<br>HYDROLOGY                                                                 | • BSCE            | UP TO 6<br>PROJECTS<br>4 TO 6 YEARS | DESIGN OF RETENTION AND DETENTION     BASIN FOR WATER QUALITY     PERFORMED HIGHWAY STORM WATER     DRAINAGE SPREAD CALCULATIONS AND     DEVELOPED STORM WATER MANAGEMENT     PLAN.     PERFORMED SCOUR ANALYSIS AND FLOOD     ROUTING CALCULATIONS     PERFORMED HIGHWAY DRAINAGE DESIGN     USING HEC-1, HEC-2, TR55, HEC-20 & HEC-RAS     EXPERIENCE IN NJDEP FLOOD HAZARD     CONTROL ACT AND STORM WATER     MANAGEMENT REGULATIONS                                                                                                                                                                                                                                                                                                                                     |
| UTILITY<br>ENGINEERING                                                                      | BS IN ENGINEERING | UP TO 6<br>PROJECTS  3 TO 5 YEARS   | <ul> <li>PREPARATION OF UTILITY RELOCATION SCHEMES AND DESIGN-CONSTRUCTION PLANS</li> <li>PREPARATION OF UTILITY AGREEMENT PLANS</li> <li>PREPARATION OF SPECIFICATIONS (SPECIAL PROVISIONS)</li> <li>EXPERIENCE IN NJDOT CAPITAL PROJECT DELIVERY PROCESS.</li> <li>EXPERIENCE WITH STATE UTILITY &amp; RAILROAD ACCOMMODATION POLICY</li> <li>EXPERIENCE WITH TITLE 16 NJDOT CHAPTER 25 UTILITY ACCOMMODATION POLICY</li> <li>ACCOMMODATION POLICY DESIGN EXPERIENCE</li> <li>EXPERIENCE WITH CFR TITLE 23 PART 645</li> <li>EXPERIENCE WITH CFR TITLE 23 PART 646</li> <li>EXPERIENCE WITH NJDOT ROADWAY DESIGN MANUAL</li> <li>EXPERIENCE WITH NJDOT BRIDGE AND STRUCTURAL DESIGN MANUAL</li> <li>EXPERIENCE WITH UTILITY DESIGN OF WATER AND MUNICIPAL SEWER</li> </ul> |

# Project Manager & Key Staff Standards for Technical Proposals Projects using Level B and/or Level C prequalification disciplines

| RSCE or BSEE EXPERIENCE WITH TRAFFIC SAFETY IN CONSTRUCTION ZONE, HIGHWAY CAPACITY MANUAL EXPERIENCE WITH HIGHWAY CAPACITY ANALYSIS SOFTWARE HCM, TRANSIT 7F, PASR2, SYNCHRO  BACHELORS OR MASTERS DEGREE IN ENVIRONMENTAL SCIENCE, ECOLOGY, GEOLOGY, ENGINEERING, BIOLOGY, | UP TO 6 PROJECTS  5 TO 7 YEARS  UP TO 6 PROJECTS  5 TO 7 YEARS | <ul> <li>TOPOGRAPHIC SURVEY, BASE LINE SURVEY, PROFILE AND CROSS SECTIONS FOR HIGHWAYS</li> <li>PREPARED ROW MAPS(ETM, GPPM,IPM) WITH PARCEL DESCRIPTIONS.</li> <li>EXPERIENCE WITH NJ MAP FILING LAW FOR ROW MAPPING</li> <li>EXPERIENCE WITH NJDOT SURVEYING MANUAL &amp; STANDARD ARTICLE 44         EXPERIENCE WITH NJDOT SURVEYING MANUAL AND STANDARD ARTICLE 51</li> <li>PERFORMED HIGHWAY CAPACITY /LOS ANALYSIS, USING HIGHWAY CAPACITY SOFTWARE, HCS</li> <li>PERFORMED SPEED/DELAY STUDIES AND QUEUING ANALYSIS</li> <li>PREPARED TRAFFIC SIGNAL DESIGN PLANS</li> <li>PREPARED DESIGN TEMPORARY TRAFFIC SIGNAL EXPERIENCE IN MUTCD, STANDARD ROADWAY CONSTRUCTION AND TRAFFIC CONTROL DETAILS.</li> <li>MANAGED ENVIRONMENTAL TECHNICAL STUDIES FOR AIR, NOISE, ECOLOGY, HAZARDOUS WASTE, SOCIOECONOMIC, EJ, HISTORIC ARCHITECTURAL,</li> </ul> |
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| EXPERIENCE WITH TRAFFIC SAFETY IN CONSTRUCTION ZONE, HIGHWAY CAPACITY MANUAL EXPERIENCE WITH HIGHWAY CAPACITY ANALYSIS SOFTWARE HCM, TRANSIT 7F, PASR2, SYNCHRO  BACHELORS OR MASTERS DEGREE IN ENVIRONMENTAL SCIENCE, ECOLOGY, GEOLOGY, ENGINEERING, BIOLOGY,              | PROJECTS  5 TO 7 YEARS  UP TO 6                                | USING HIGHWAY CAPACITY SOFTWARE, HCS PERFORMED SPEED/DELAY STUDIES AND QUEUING ANALYSIS PREPARED TRAFFIC SIGNAL DESIGN PLANS PREPARED DESIGN TEMPORARY TRAFFIC SIGNAL EXPERIENCE IN MUTCD, STANDARD ROADWAY CONSTRUCTION AND TRAFFIC CONTROL DETAILS.  MANAGED ENVIRONMENTAL TECHNICAL STUDIES FOR AIR, NOISE, ECOLOGY, HAZARDOUS WASTE,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| DEGREE IN ENVIRONMENTAL<br>SCIENCE, ECOLOGY, GEOLOGY,<br>ENGINEERING, BIOLOGY,                                                                                                                                                                                              |                                                                | FOR AIR, NOISE, ECOLOGY, HAZARDOUS WASTE,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| CHEMICAL OR NATURAL<br>RESOURCES                                                                                                                                                                                                                                            | 5 TO 7 YEARS                                                   | SOCIOECONOMIC, EJ, HISTORIC ARCHITECTURAL, AND ARCHEOLOGY.      MANAGED PREPARATION OF NEPA DOCUMENTS AND ENVIRONMENTAL PERMITS      MANAGED PREPARATION OF SECTION 4(F) DOCUMENTS      EXPERIENCE WITH STATE & FEDERAL ENVIRONMENTAL REGULATIONS      EXPERIENCE WITH NJDOT CAPITAL PROJECT DELIVERY PROCESS      EXPERIENCE WITH PROCEDURES INVOLVING SHPO AND DEP PERMITS      EXPERIENCE WITH SECRETARY OF INTERIOR STANDARDS FOR REHABILITATION                                                                                                                                                                                                                                                                                                                                                                                                        |
| QUALIFIED IN 36 CFRPART 61<br>CH NOTES BACHELORS OR<br>TERS DEGREE IN ARCHEOLOGY,<br>IROPOLOGY, ARCHITECTURAL<br>DRY, ART HISTORY, HISTORIC<br>BERVATION OR CLOSELY<br>TED FIELD)                                                                                           | UP TO 6<br>PROJECTS<br>5 TO 7 YEARS                            | CULTURAL RESOURCES (INCLUDING<br>ARCHEOLOGY AND HISTORIC ARCHITECTURAL<br>SURVEYS AND MITIGATION EFFORTS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| BSEE                                                                                                                                                                                                                                                                        | UP TO 6<br>PROJECTS<br>2 TO 4 YEARS                            | TRAFFIC SIGNAL DESIGN HIGHWAY LIGHTING DESIGN EXPERIENCE IN CADD - "dgn" FORMAT EXPERIENCE WITH LIGHTING DESIGN SOFTWARE CALA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                                             | Only Level A                                                   | Only Level A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Only Level A                                                                                                                                                                                                                                                                |                                                                | RESPONSIBLE FOR PUBLIC INFORMATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                             | Only Level A                                                   | 2 TO 4 YEARS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |